

FIG. 1

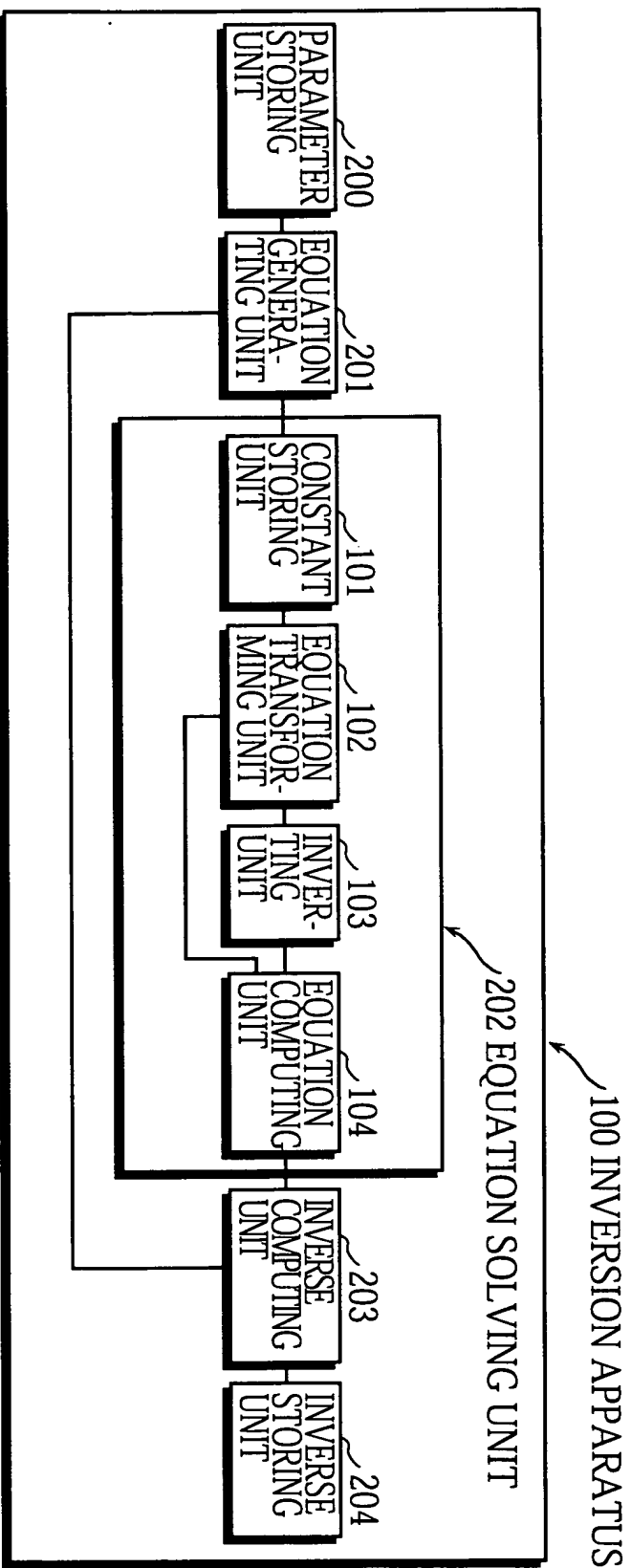


FIG. 2

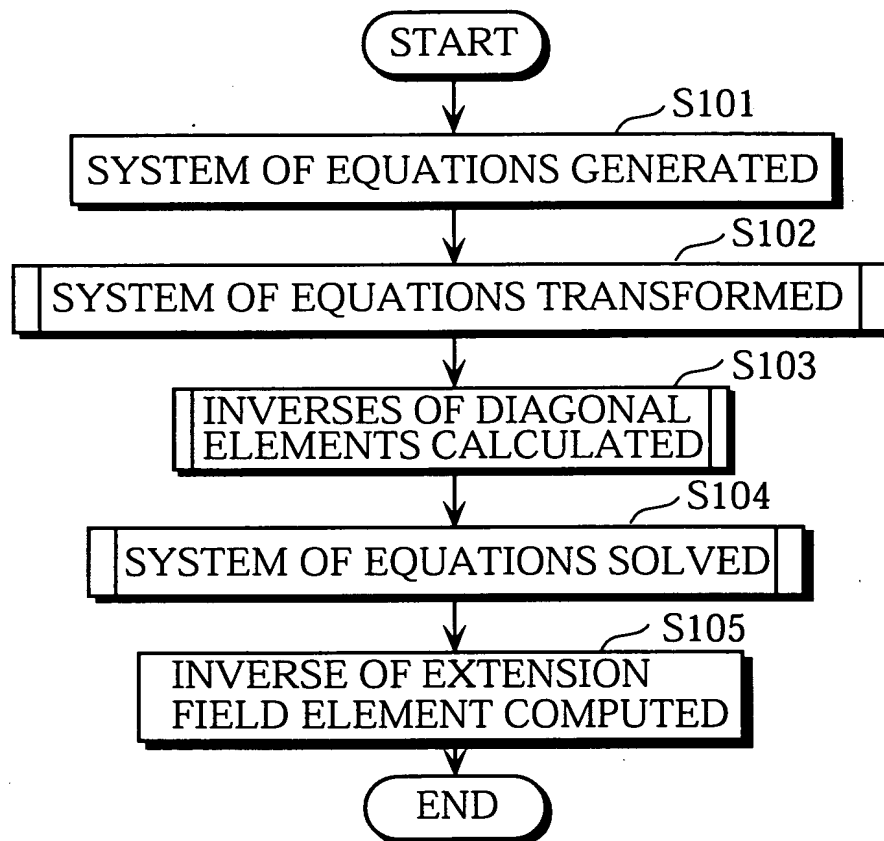


FIG. 3

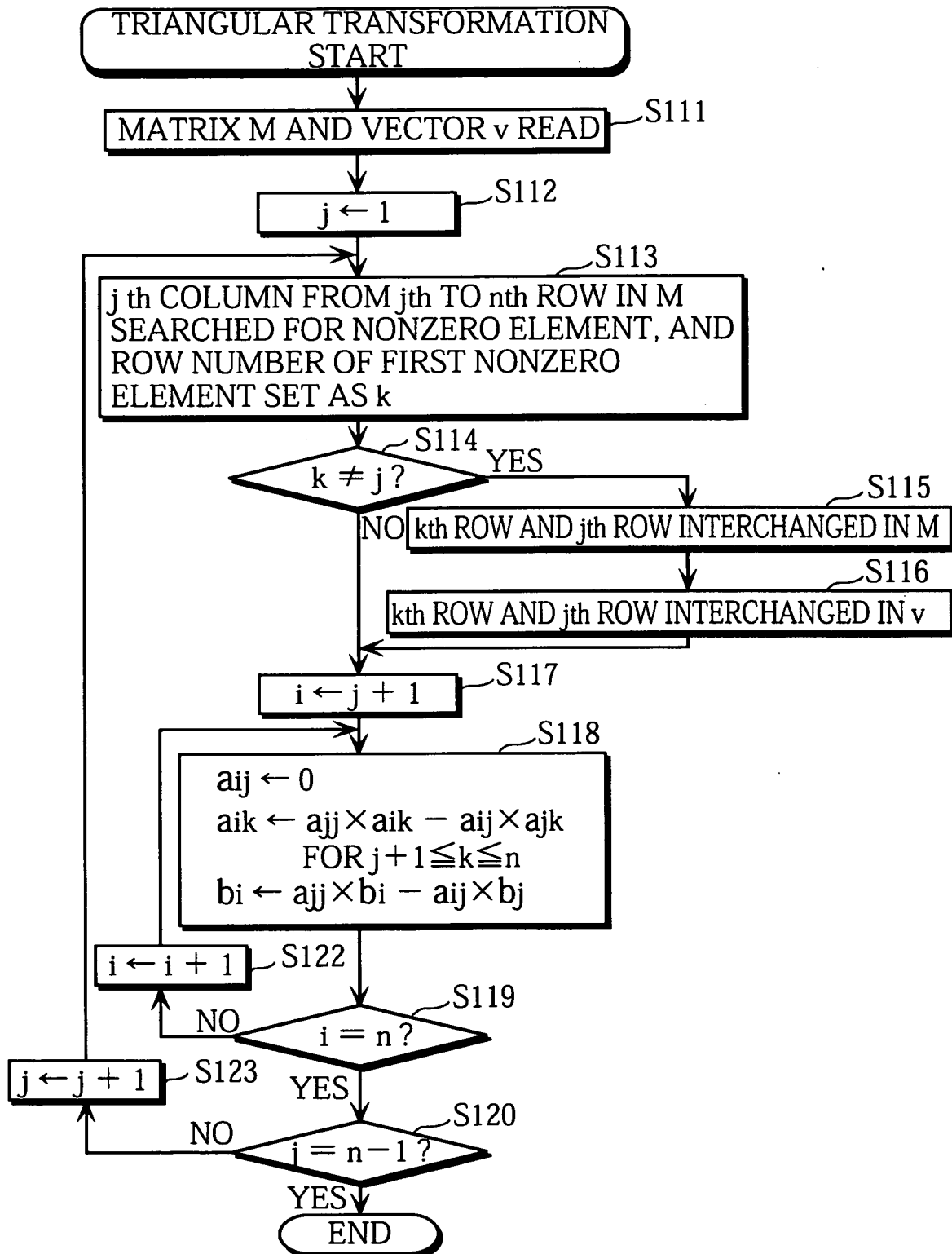


FIG. 4

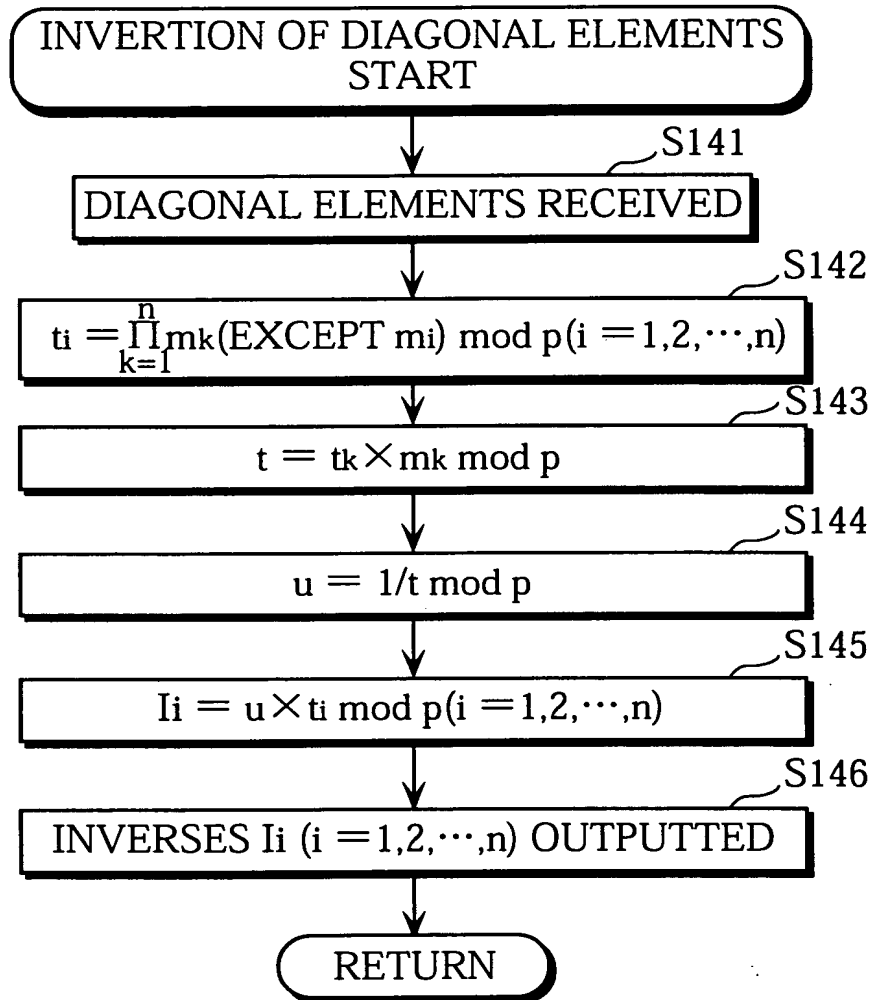


FIG. 5

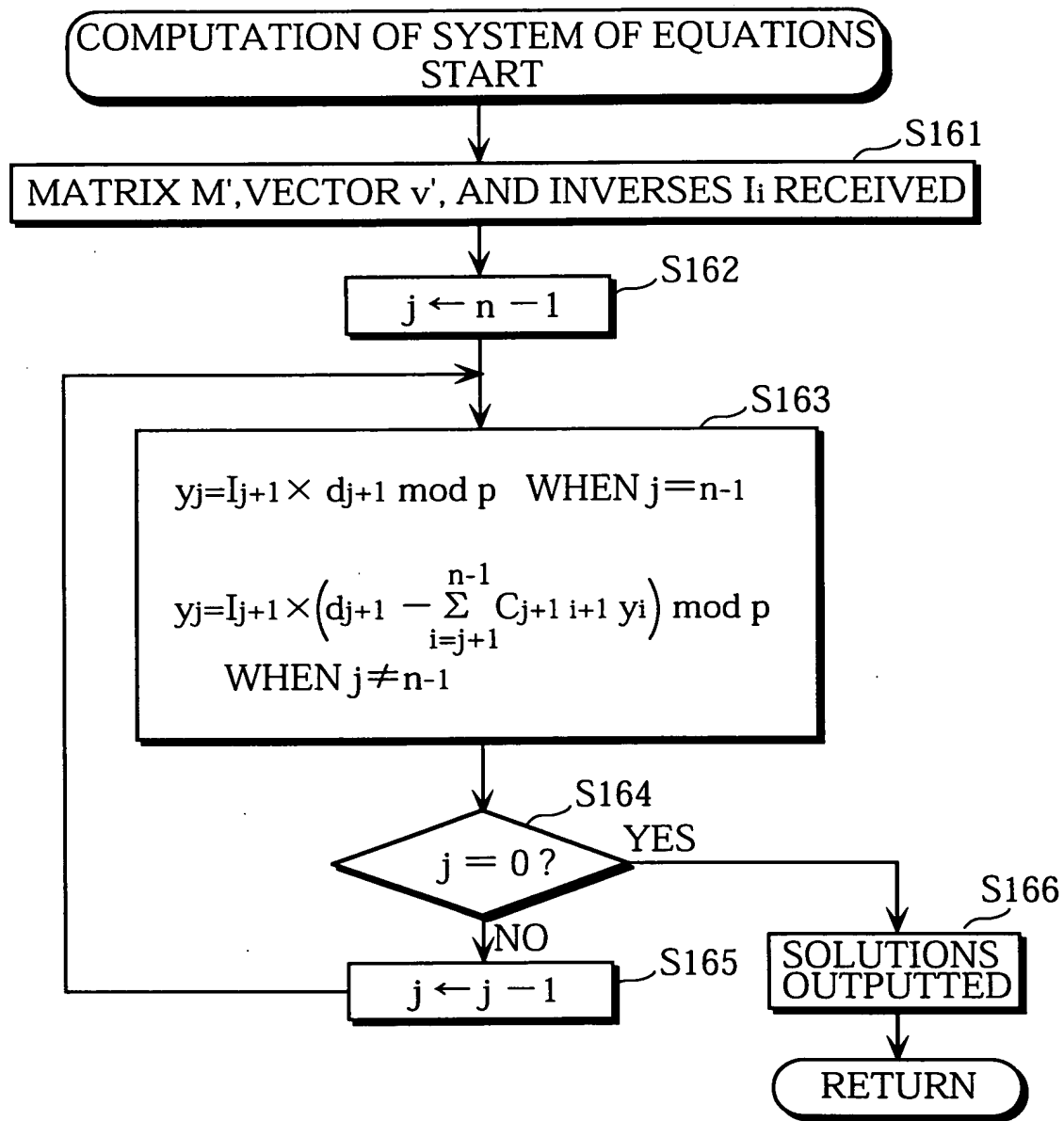


FIG. 6

$$\begin{aligned}
 & \text{(a)} \quad \begin{pmatrix} 17 & 10 & 27 & 12 & 7 \\ 19 & 17 & 10 & 27 & 12 \\ 6 & 19 & 17 & 10 & 27 \\ 29 & 6 & 19 & 17 & 10 \\ 5 & 29 & 6 & 19 & 17 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 1 \\ 0 \\ 0 \\ 0 \\ 0 \end{pmatrix} \\
 & \text{(b)} \quad \begin{pmatrix} 17 & 10 & 27 & 12 & 7 \\ \boxed{0} & 6 & 29 & 14 & 9 \\ 6 & 19 & 17 & 10 & 27 \\ 29 & 6 & 19 & 17 & 10 \\ 5 & 29 & 6 & 19 & 17 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 1 \\ \boxed{12} \\ 0 \\ 0 \\ 0 \end{pmatrix} \\
 & \text{(c)} \quad \begin{pmatrix} 17 & 10 & 27 & 12 & 7 \\ 0 & 6 & 29 & 14 & 9 \\ \boxed{0} & 15 & 3 & 5 & 14 \\ \boxed{0} & 29 & 5 & 3 & 29 \\ \boxed{0} & 9 & 29 & 15 & 6 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 1 \\ 12 \\ \boxed{25} \\ \boxed{2} \\ \boxed{26} \end{pmatrix} \\
 & \text{(d)} \quad \begin{pmatrix} 17 & 10 & 27 & 12 & 7 \\ 0 & 6 & 29 & 14 & 9 \\ 0 & \boxed{0} & 17 & 6 & 11 \\ 0 & \boxed{0} & 26 & 15 & 6 \\ 0 & \boxed{0} & 6 & 26 & 17 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 1 \\ 12 \\ \boxed{1} \\ \boxed{5} \\ \boxed{17} \end{pmatrix} \\
 & \text{(e)} \quad \begin{pmatrix} 17 & 10 & 27 & 12 & 7 \\ 0 & 6 & 29 & 14 & 9 \\ 0 & 0 & 17 & 6 & 11 \\ 0 & 0 & \boxed{0} & 6 & 2 \\ 0 & 0 & \boxed{0} & 3 & 6 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 1 \\ 12 \\ 1 \\ \boxed{28} \\ \boxed{4} \end{pmatrix} \\
 & \text{(f)} \quad \begin{pmatrix} 17 & 10 & 27 & 12 & 7 \\ 0 & 6 & 29 & 14 & 9 \\ 0 & 0 & 17 & 6 & 11 \\ 0 & 0 & 0 & 6 & 2 \\ 0 & 0 & 0 & \boxed{0} & 30 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 1 \\ 12 \\ 1 \\ 28 \\ \boxed{2} \end{pmatrix}
 \end{aligned}$$

FIG. 7

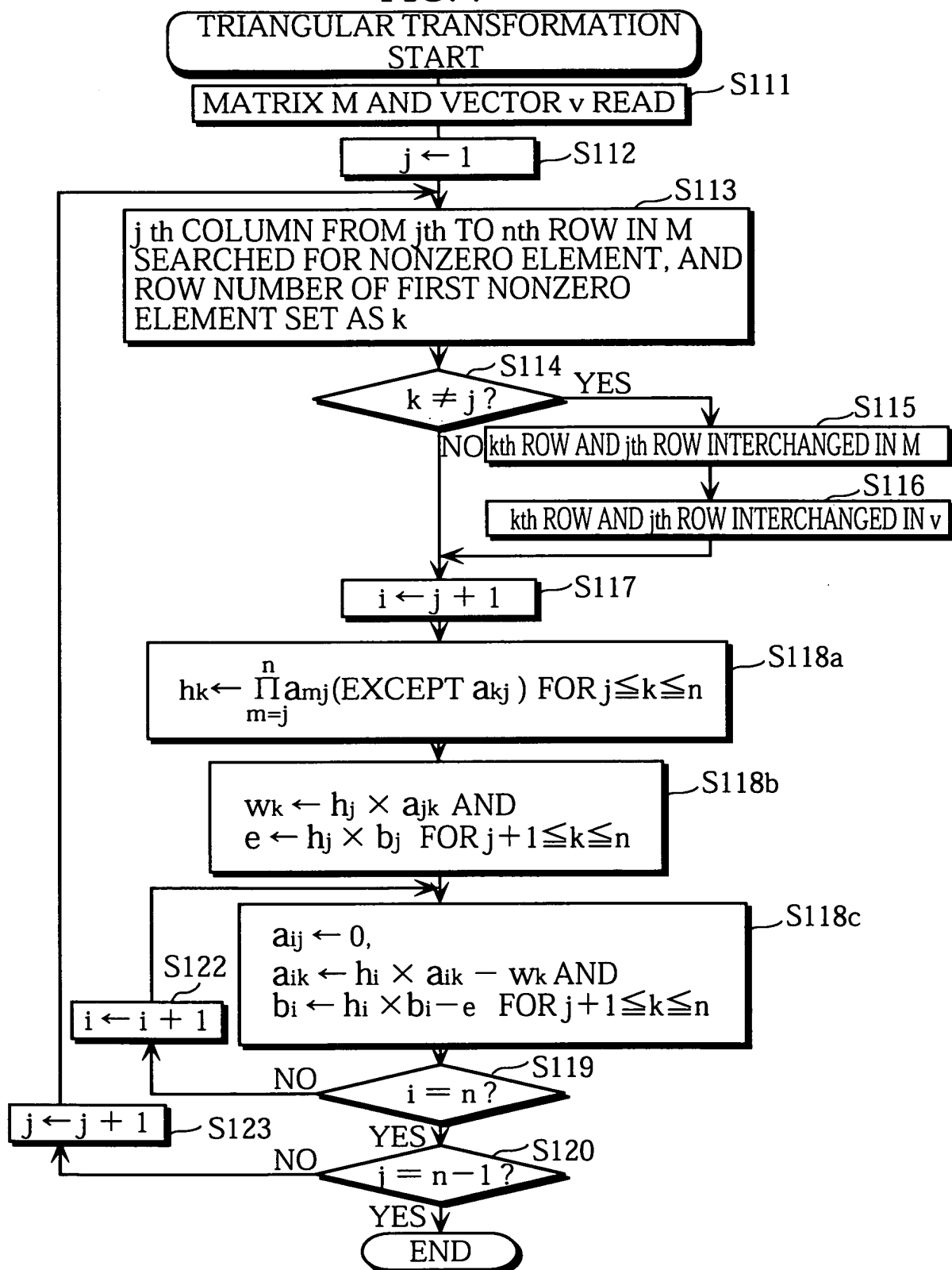


FIG. 8

$$\begin{aligned}
 & \text{(a)} \quad \begin{pmatrix} 17 & 10 & 27 & 12 & 7 \\ 19 & 17 & 10 & 27 & 12 \\ 6 & 19 & 17 & 10 & 27 \\ 29 & 6 & 19 & 17 & 10 \\ 5 & 29 & 6 & 19 & 17 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 1 \\ 0 \\ 0 \\ 0 \\ 0 \end{pmatrix} \quad \begin{matrix} 501 \\ 502 \end{matrix} \\
 & \text{(b)} \quad \begin{pmatrix} 17 & 10 & 27 & 12 & 7 \\ \boxed{0} & \boxed{12} & \boxed{27} & \boxed{28} & \boxed{18} \\ 6 & 19 & 17 & 10 & 27 \\ 29 & 6 & 19 & 17 & 10 \\ 5 & 29 & 6 & 19 & 17 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 1 \\ \boxed{24} \\ 0 \\ 0 \\ 0 \end{pmatrix} \quad \begin{matrix} 511 \\ 512 \end{matrix} \\
 & \text{(c)} \quad \begin{pmatrix} 17 & 10 & 27 & 12 & 7 \\ 0 & 12 & 27 & 28 & 18 \\ \boxed{0} & 2 & 19 & 11 & 6 \\ \boxed{0} & 7 & 29 & 5 & 7 \\ \boxed{0} & 25 & 22 & 21 & 27 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 1 \\ 24 \\ \boxed{24} \\ \boxed{24} \\ \boxed{24} \end{pmatrix} \quad \begin{matrix} 521 \\ 522 \end{matrix} \\
 & \text{(d)} \quad \begin{pmatrix} 17 & 10 & 27 & 12 & 7 \\ 0 & 12 & 27 & 28 & 18 \\ 0 & \boxed{0} & 8 & 1 & 7 \\ 0 & \boxed{0} & 14 & 20 & 8 \\ 0 & \boxed{0} & 12 & 21 & 3 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 1 \\ 24 \\ \boxed{26} \\ \boxed{17} \\ \boxed{3} \end{pmatrix} \quad \begin{matrix} 531 \\ 532 \end{matrix} \\
 & \text{(e)} \quad \begin{pmatrix} 17 & 10 & 27 & 12 & 7 \\ 0 & 12 & 27 & 28 & 18 \\ 0 & 0 & 8 & 1 & 7 \\ 0 & 0 & \boxed{0} & 16 & 26 \\ 0 & 0 & \boxed{0} & 14 & 28 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 1 \\ 24 \\ 26 \\ \boxed{23} \\ \boxed{29} \end{pmatrix} \quad \begin{matrix} 541 \\ 542 \end{matrix} \\
 & \text{(f)} \quad \begin{pmatrix} 17 & 10 & 27 & 12 & 7 \\ 0 & 12 & 27 & 28 & 18 \\ 0 & 0 & 8 & 1 & 7 \\ 0 & 0 & 0 & 16 & 26 \\ 0 & 0 & 0 & \boxed{0} & 22 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 1 \\ 24 \\ 26 \\ 23 \\ \boxed{18} \end{pmatrix} \quad \begin{matrix} 551 \\ 552 \end{matrix}
 \end{aligned}$$

FIG. 9

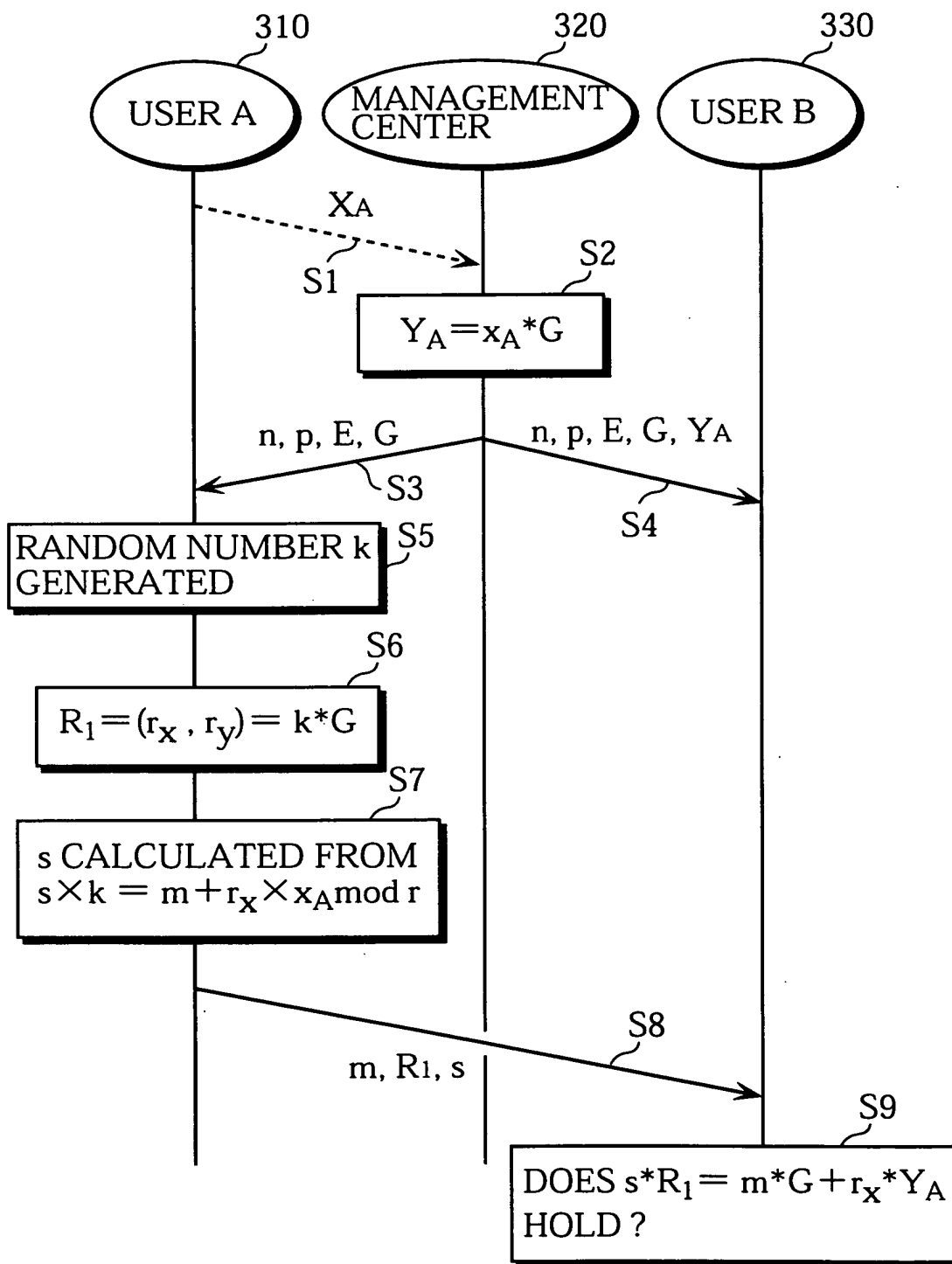


FIG. 10

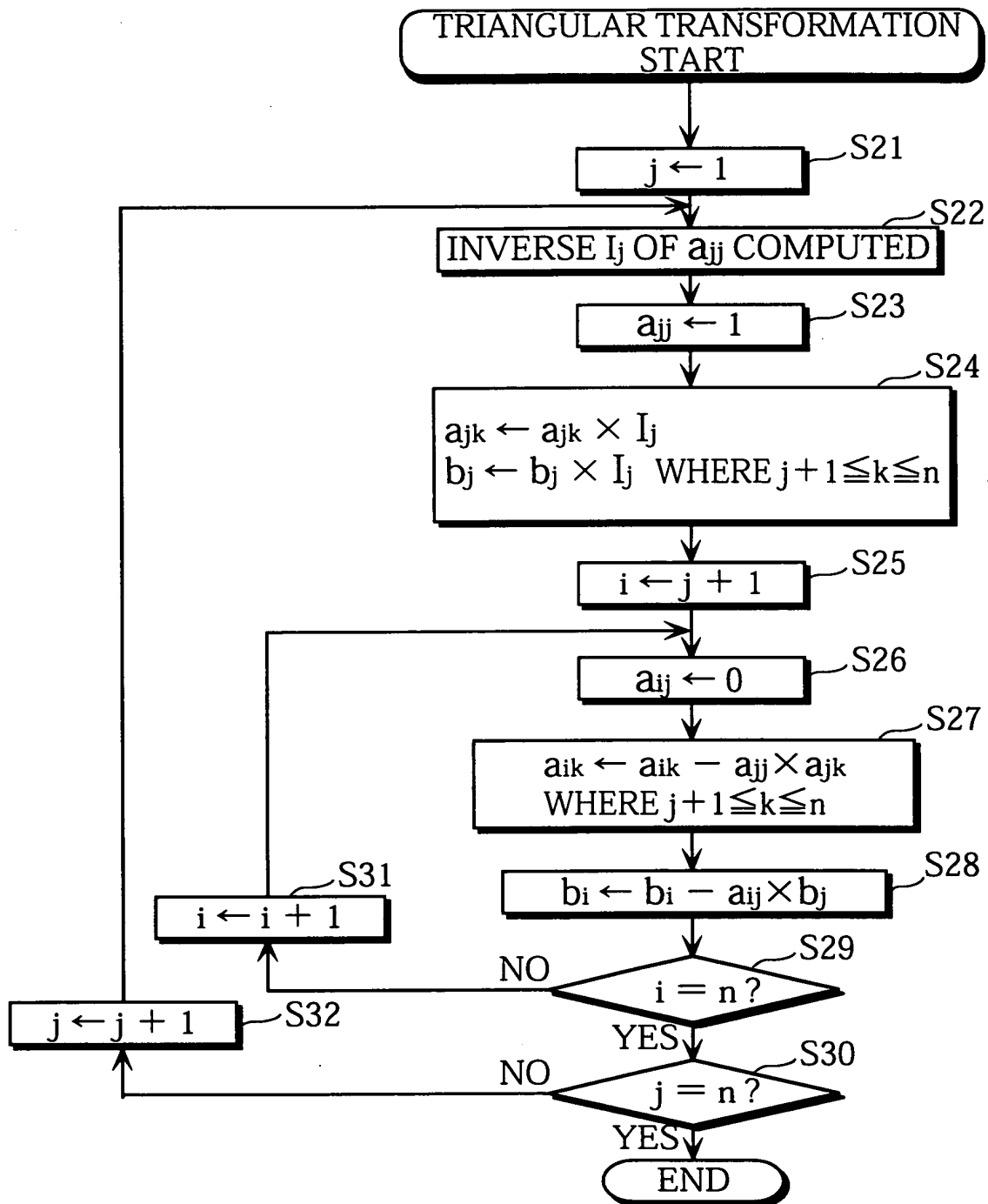


FIG. 11

$$(a) \begin{pmatrix} 17 & 10 & 27 & 12 & 7 \\ 19 & 17 & 10 & 27 & 12 \\ 6 & 19 & 17 & 10 & 27 \\ 29 & 6 & 19 & 17 & 10 \\ 5 & 29 & 6 & 19 & 17 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 1 \\ 0 \\ 0 \\ 0 \\ 0 \end{pmatrix} \quad \begin{matrix} 301 \\ 302 \end{matrix}$$

$$(f) \begin{pmatrix} 1 & 17 & 18 & 8 & 15 \\ 0 & 1 & 10 & 23 & 17 \\ 0 & 0 & 1 & 4 & 28 \\ 0 & 0 & 27 & 12 & 11 \\ 0 & 0 & 11 & 27 & 26 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 11 \\ 2 \\ 11 \\ 4 \\ 26 \end{pmatrix} \quad \begin{matrix} 351 \\ 352 \end{matrix}$$

$$(b) \begin{pmatrix} 1 & 17 & 18 & 8 & 15 \\ 19 & 17 & 10 & 27 & 12 \\ 6 & 19 & 17 & 10 & 27 \\ 29 & 6 & 19 & 17 & 10 \\ 5 & 29 & 6 & 19 & 17 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 11 \\ 0 \\ 0 \\ 0 \\ 0 \end{pmatrix} \quad \begin{matrix} 311 \\ 312 \end{matrix}$$

$$(g) \begin{pmatrix} 1 & 17 & 18 & 8 & 15 \\ 0 & 1 & 10 & 23 & 17 \\ 0 & 0 & 1 & 4 & 28 \\ 0 & 0 & 28 & 30 & 30 \\ 0 & 0 & 14 & 28 & 28 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 11 \\ 2 \\ 11 \\ 17 \\ 29 \end{pmatrix} \quad \begin{matrix} 361 \\ 362 \end{matrix}$$

$$(c) \begin{pmatrix} 1 & 17 & 18 & 8 & 15 \\ 0 & 4 & 9 & 30 & 6 \\ 0 & 10 & 2 & 24 & 30 \\ 0 & 9 & 24 & 2 & 9 \\ 0 & 6 & 9 & 10 & 4 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 11 \\ 8 \\ 27 \\ 22 \\ 7 \end{pmatrix} \quad \begin{matrix} 321 \\ 322 \end{matrix}$$

$$(h) \begin{pmatrix} 1 & 17 & 18 & 8 & 15 \\ 0 & 1 & 10 & 23 & 17 \\ 0 & 0 & 1 & 4 & 28 \\ 0 & 0 & 0 & 1 & 21 \\ 0 & 0 & 0 & 14 & 28 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 11 \\ 2 \\ 11 \\ 15 \\ 29 \end{pmatrix} \quad \begin{matrix} 371 \\ 372 \end{matrix}$$

$$(d) \begin{pmatrix} 1 & 17 & 18 & 8 & 15 \\ 0 & 1 & 10 & 23 & 17 \\ 0 & 10 & 2 & 24 & 30 \\ 0 & 9 & 24 & 2 & 9 \\ 0 & 6 & 9 & 10 & 4 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 11 \\ 2 \\ 27 \\ 22 \\ 7 \end{pmatrix} \quad \begin{matrix} 331 \\ 332 \end{matrix}$$

$$(i) \begin{pmatrix} 1 & 17 & 18 & 8 & 15 \\ 0 & 1 & 10 & 23 & 17 \\ 0 & 0 & 1 & 4 & 28 \\ 0 & 0 & 0 & 1 & 21 \\ 0 & 0 & 0 & 0 & 13 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 11 \\ 2 \\ 11 \\ 15 \\ 5 \end{pmatrix} \quad \begin{matrix} 381 \\ 382 \end{matrix}$$

$$(e) \begin{pmatrix} 1 & 17 & 18 & 8 & 15 \\ 0 & 1 & 10 & 23 & 17 \\ 0 & 0 & 26 & 11 & 15 \\ 0 & 0 & 27 & 12 & 11 \\ 0 & 0 & 11 & 27 & 26 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 11 \\ 2 \\ 7 \\ 4 \\ 26 \end{pmatrix} \quad \begin{matrix} 341 \\ 342 \end{matrix}$$

$$(j) \begin{pmatrix} 1 & 17 & 18 & 8 & 15 \\ 0 & 1 & 10 & 23 & 17 \\ 0 & 0 & 1 & 4 & 28 \\ 0 & 0 & 0 & 1 & 21 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} X_0 \\ X_1 \\ X_2 \\ X_3 \\ X_4 \end{pmatrix} = \begin{pmatrix} 11 \\ 2 \\ 11 \\ 15 \\ 29 \end{pmatrix} \quad \begin{matrix} 391 \\ 392 \end{matrix}$$